

IN THE CLAIMS

Claims 1-24 are pending in this application, as follows:

1. (Previously Presented) A dental unit, comprising:
 - a feed water line for leading water to at least one water outlet point or water-consuming instrument of the dental unit;
 - a pressure chamber in connection with the feed water line and with a compressed air line;
 - a pressure control device configured to control pressure in the pressure chamber according to a desired pressure level via the compressed air line; and
 - a pump arranged along the feed water line upstream of the pressure chamber and configured to pump water to said pressure chamber when the pressure in the pressure chamber is greater than a pressure in the feed water line upstream of the pressure chamber.
2. (Previously Presented) The dental unit according to claim 1, wherein said pressure control device comprises a valve arrangement configured to enable pressurizing air to enter the pressure chamber and to enable air to be purged from the pressure chamber.
3. (Previously Presented) The dental unit according to claim 2, wherein said valve arrangement comprises at least one three-way valve arranged in the compressed air line, wherein the at least one three-way valve is operable to provide a connection between the pressure chamber and the compressed air line in a first state to enable pressurizing air to enter the pressure chamber, and wherein the at least one three-way valve is operable to prevent the connection between the pressure chamber and the compressed air line in a second state to connect the pressure chamber to an external pressure.
4. (Previously Presented) The dental unit according to claim 1, further comprising means for recognizing fluid level height, the means for recognizing fluid level height being arranged in the pressure chamber.

5. (Previously Presented) The dental unit according to claim 4, wherein said pump is configured to pump water to the pressure chamber periodically in accordance with adjustment signals received from the means for recognizing fluid level height of the pressure chamber.
6. (Previously Presented) The dental unit according to claim 1, further comprising a reservoir chamber arranged in the feed water line upstream of said pump and configured to store water for said pump.
7. (Previously Presented) The dental unit according to claim 6, further comprising an overflow edge structure arranged in said reservoir chamber, the overflow edge structure being configured to ensure that a fluid level in the reservoir chamber does not exceed a predetermined height threshold.
8. (Previously Presented) The dental unit according to claim 7, wherein the reservoir chamber is formed to be at least partially open to atmospheric pressure.
9. (Previously Presented) The dental unit according to claim 8, wherein a feed link connected to an external water source is arranged to feed water to the reservoir chamber from a distance above the predetermined height threshold for the fluid level in the reservoir chamber.
10. (Previously Presented) The dental unit according to claim 8, wherein a detergent feed link is arranged to feed a cleaning chemical to the reservoir chamber from a distance above the predetermined height threshold for the fluid level in the reservoir chamber.
11. (Previously Presented) The dental unit according to claim 6, further comprising a branch line arranged in the feed water line downstream of the pressure chamber leading to said reservoir chamber via which line fluid can be circulated from the pressure chamber to the reservoir chamber.
12. (Previously Presented) The dental unit according to claim 1, wherein the pressure chamber is configured to be detachably attachable to the feed water line.

13. (Previously Presented) The dental unit according to claim 1, further comprising a closable feed opening arranged in the pressure chamber for feeding detergent into the pressure chamber.
14. (Previously Presented) A method for feeding water in a dental unit, the method comprising:
 - leading water to at least one water outlet point or water-consuming instrument of the dental unit using a feed water line;
 - using a pressure control device to control pressure in a pressure chamber connected with the feed water line according to a desired pressure level via a compressed air line connected with the pressure chamber; and
 - when the pressure in the pressure chamber is greater than a pressure in the feed water line upstream of the pressure chamber, pumping water to the pressure chamber using a pump arranged along the feed water line upstream of the pressure chamber to replace water led from the pressure chamber to the at least one water outlet point or water-consuming instrument of the dental unit using the feed water line.
15. (Previously Presented) The method according to claim 14, wherein controlling pressure in the pressure chamber via the compressed air line comprises enabling pressurizing air to enter the pressure chamber and enabling air to be purged from the pressure chamber.
16. (Previously Presented) The method according to claim 15, wherein the pressure control device includes at least one three-way valve arranged in the compressed air line, wherein the at least one three-way valve is operable to provide a connection between the pressure chamber and the compressed air line in a first state to enable pressurizing air to enter the pressure chamber, and wherein the at least one three-way valve is operable to prevent the connection between the pressure chamber and the compressed air line in a second state to connect the pressure chamber to an external pressure.

17. (Previously Presented) The method according to claim 14, further comprising recognizing fluid level height in the pressure chamber and pumping water to the pressure chamber using the pump upon detection of the fluid level height being at or below a predetermined limit.
18. (Previously Presented) The method according to claim 14, further comprising storing feed water for the pump in a reservoir chamber arranged in the feed water line upstream of the pump.
19. (Previously Presented) The method according to claim 18, wherein the reservoir chamber is formed to be at least partially open to atmospheric pressure, and further comprising ensuring that a fluid level in the reservoir chamber does not exceed a predetermined height threshold using an overflow edge structure arranged in the reservoir chamber, and feeding water to the reservoir chamber from a distance above the predetermined height threshold for the fluid level in the reservoir chamber using a water feed link connected to an external water source.
20. (Previously Presented) The method according to claim 19, wherein water from a public water system is fed via the water feed link.
21. (Previously Presented) The method according to claim 19, further comprising using a detergent feed link to feed a cleaning chemical to the reservoir chamber.
22. (Previously Presented) The method according to claim 18, further comprising circulating fluid from the pressure chamber to the reservoir chamber via a branch line arranged in the feed water line downstream of the pressure chamber leading to the reservoir chamber.
23. (Previously Presented) The method according to claim 14, wherein the pressure chamber is configured to be detachably attachable to the dental unit to be filled with a cleaning chemical or purified water, or to be replaced with another suitable chamber.

24. (Previously Presented) The method according to claim 14, further comprising, upon the pressure chamber being filled with a cleaning chemical or replaced with a second chamber containing the cleaning chemical, pressurizing the pressure chamber and driving the cleaning chemical to the feed water line.